Software release note

Topic	**Updated software packages for JODY-W1 series modules, 2019-11-04** UBX-19054083
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Date	20 November 2019

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1 General Information

1.1 Released software version

File: meta-ublox-modules-2019-11-04.tar.gz

This is the Yocto layer containing the metadata for the updated software packages described in this release note.

1.2 Scope

This release note describes the software packages updated in the meta-ublox-modules Yocto layer release version - 2019-11-04 for the u-blox host-based short range radio chips and modules. It covers the changes compared to the meta-ublox-modules version 2019-10-07.

Please see the List of changes, section 2, for an overview of the updated software packages for each module. Detailed release notes with supported features, changes, fixed bugs and known issues/limitations are provided in the JODY-W1 release notes section.

1.3 Obtaining the software packages

The Yocto layer release file is available through u-blox support. The third party driver/firmware packages, which are not part of the Yocto layer release, have to be obtained separately. Please contact u-blox support for information about how to obtain these software packages.

Please note that additional license and distribution requirements might apply for the third party software packages:

- The proprietary Android/Linux drivers for the JODY-W1 series modules are distributed by Cypress directly under the terms of a software license agreement
- The open-source Linux FMAC drivers for JODY-W1 can be obtained from the Cypress Linux community page at https://community.cypress.com/community/linux/

2   List of changes

- JODY-W1
  - jody-w1-nvrams: add initial JODY-W174 nvram files
  - jody-w1-bt-hcd: update BT patchram files to 002.002.014.0143
  - jody-w1-mfg: use native wl and dhd with AArch64

Important updates:

- Fixes for the Bluetooth KNOB Security Vulnerability CVE 2019-9506, Erratum 11838: Encryption Key Size Updates, are provided with the following software packages: jody-w1-bt-hcd

3   JODY-W1 release notes

3.1 jody-w1-bt-hcd

JODY-W1 Bluetooth firmware version 002.002.014.0143

Known issues and limitations:

- If two WBS eSCO connections are created, need to use packet type 2-EV3 or higher. Any lower packet type/size will result in degradation of eSCO/Voice quality. This limitation will not be addressed due to limited processing time and air time. EV3 can be used for one WBS eSCO connections.

Changes (since Rev_0135):

- Rev_0143: Implement Erratum 11838: Encryption Key Size Updates (KNOB attack)
- Rev_0143: Reset PCM after SCO link down
- Rev_0140: Release WBS buffers during eSCO disconnection if WBS is disabled.
- Rev_0139: Restore the PCM time slot after repeater mode is disabled
- Rev_0138: Fix secure connection MIC errors
- Rev_0137: Change default value of A2DP FlowOff check timer
- Rev_0136: Pairing failure caused by LE version exchange